

Serial No. 09/784,801

Attorney Docket No. PF02049NA

IN THE CLAIMS:

1. (Currently Amended) A communication system that provides communication services to a plurality of communication devices over one or more radio frequency (RF) channels, comprising:

a resource controller that controls at least one system parameter that impacts the availability of at least one communication resource used to provide the communication services to the plurality of communication devices; and

an operator interface that interfaces with the resource controller to interactively specify a minimum probability of communication service availability for to the plurality of the communication devices to the resource controller using the operator interface,

wherein the at least one system parameter is changed by the resource controller based on the specified minimum probability and on a preprogrammed algorithm, and the specified a minimum probability is obtained by controlling the resource controller by adjusting the at least one communication resource according to the changed system parameter.

2. (Currently Amended) The communication system of claim 1, wherein the service availability is modified by changing the at least one system parameter essentially consisting of one of:

a number of communication devices that receive the communication services;

a number of communications devices that receive the communications services in a cell;

a bit rate over an RF channel used to communicate data with the communication devices;

and

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a coding algorithm used to communicate information with the plurality of communication devices.

3. (Canceled)

4. (Original) The communication system of claim 1, wherein the resource controller monitors one or more system parameters to interactively modify communication service availability to the plurality of the communication devices.

5. (Original) The communication system of claim 4, wherein a system parameter essentially consists of at least one of a number of registered subscribers, load on a RF channel, load on a communication resource, a traffic mix, or a coding algorithm.

6. (Original) The communication system of claim 4, wherein the resource controller monitors load on one or more communication resources over a defined period of time to determine how to control the at least one communication resource.

7. (Original) The communication system of claim 4, wherein the resource controller monitors the time that a communication resource is out of service for deriving load distributions, to control the at least one communication resource.

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8. (Currently Amended) A method for providing communication services to a plurality of communication devices over one or more radio frequency (RF) channels, comprising:

controlling at least one system parameter that impacts the availability of at least one communication resource used to provide the communication services to the plurality of communication devices; and

interfacing with a resource controller to interactively specify a minimum probability of communication service availability for to the plurality of the communication devices to the resource controller using the operator interface,

changing the at least one system parameter by the resource controller based on the specified minimum probability and on a preprogrammed algorithm; and

obtaining a minimum probability by the resource controller by adjusting the at least one communication resource according to the changed system parameter.

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9. (Currently Amended) The method of claim 8, wherein the service availability is modified by changing the at least one system parameter essentially consisting of one of:

a number of communication devices that receive the communication services;

a bit rate over an RF channel used to communicate data with the communication devices;

and

a coding algorithm used to communicate information with the plurality of communication devices.

10. (Canceled)

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11. (Original) The method of claim 8, wherein the resource controller monitors one or more system parameters essentially consisting of at least one of a number of registered subscribers, load on a RF channel, load on a communication resource, a traffic mix, or a coding algorithm.

12. (Original) The method of claim 11, wherein the resource controller monitors load on one or more communication resources over a defined period of time.

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13. (Original) The method of claim 12, wherein the resource controller derives load distributions for each communication resource based on a monitored load on a corresponding communication resource.

14. (Original) The method of claim 13, wherein the resource controller also monitors the time that a communication resource is out of service for deriving load distributions.

15. (Previously Presented) The method of claim 1, wherein the operator interface is capable of adjusting a system parameter corresponding to a maximum number of registered subscribers to modify the minimum probability of communication service availability to the plurality of communication devices.

16. (Previously Presented) The communication system of claim 8, wherein interfacing with the resource controller includes adjusting a system parameter corresponding to a maximum number of registered subscribers to modify the minimum probability of communication service availability to the plurality of communication devices.